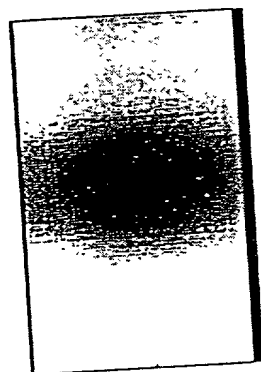
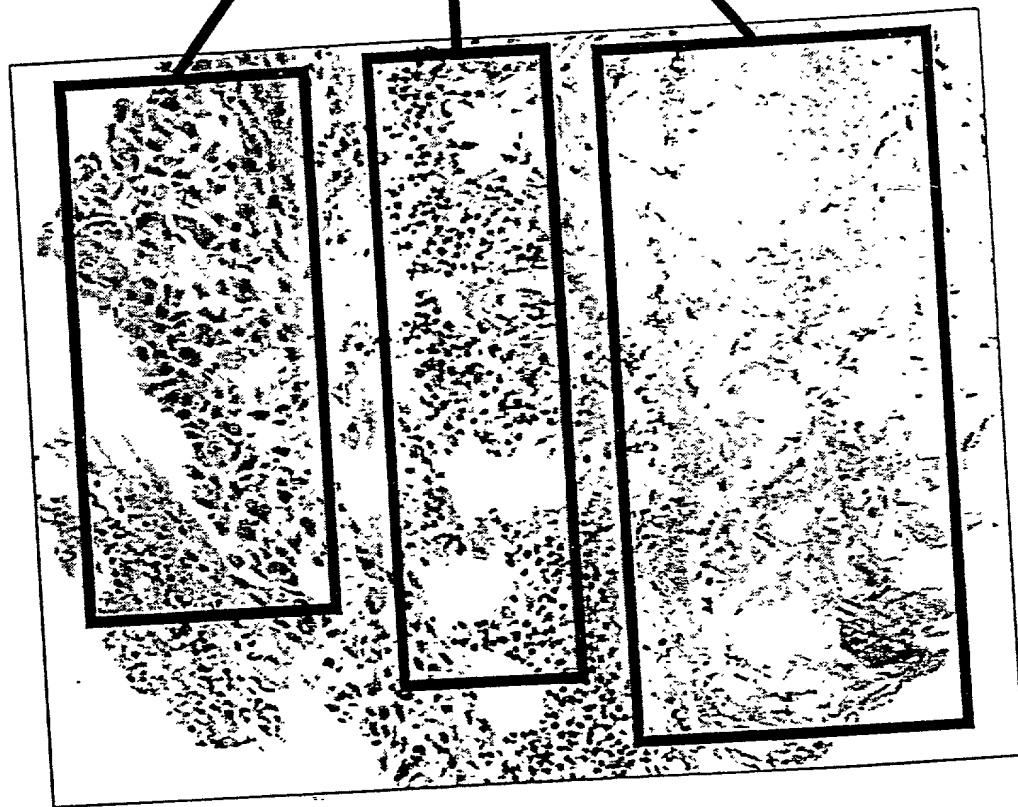


FIG. 1A

Validation - phase I

- verification of initial ---
- screening results
- establish cellular -----
- localization & anatomic
- distribution



50-200
series basic
arrays

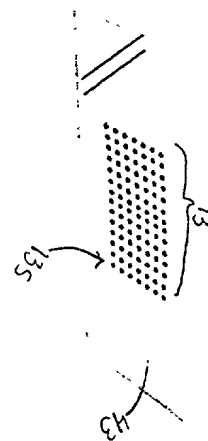
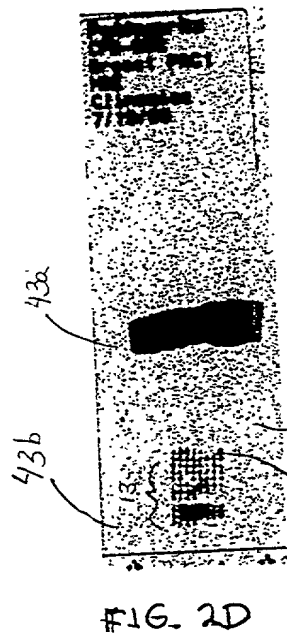
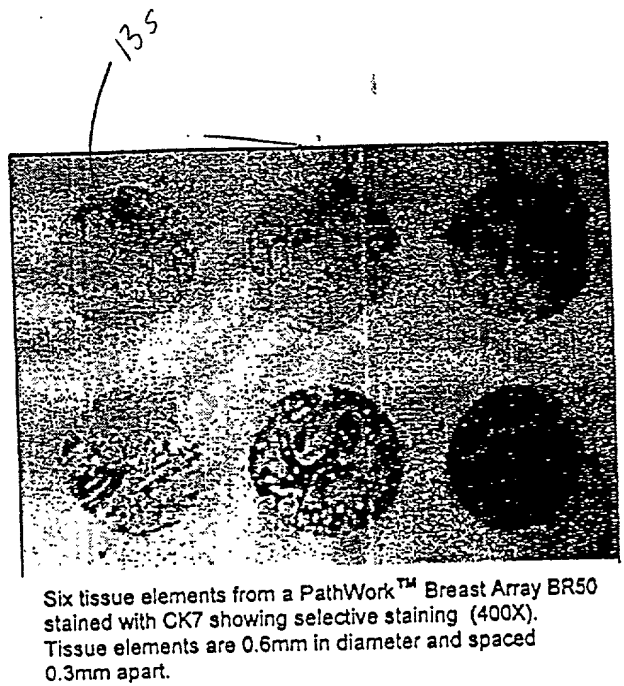
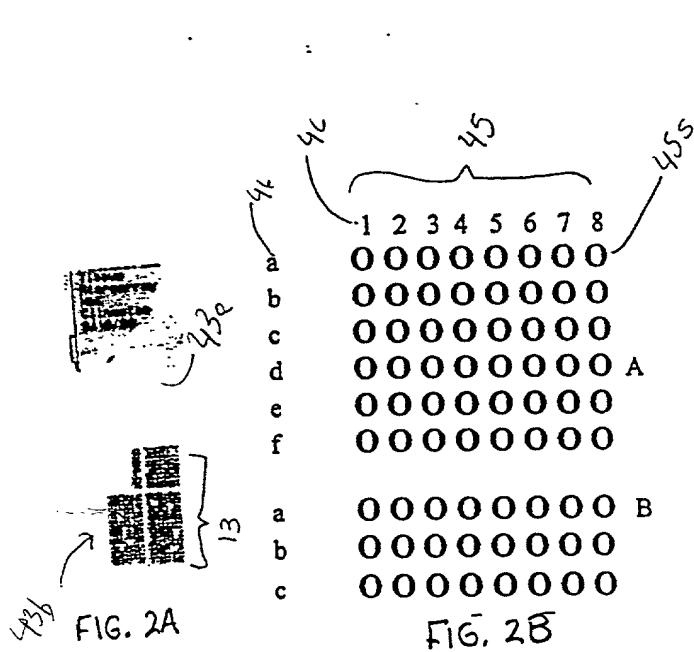


FIG. 1B



Sample Data Sheet Information (for one tissue element, located at A1a) provided with every pathWorks™ Tissue MicroArray

Cat. #	BR50	Mitoses:	1
Lot #	07	PT:	1
Coordinates:	A1a	pN:	0
Organ:	Breast	LN pos	0
Category:	Breast cancer, ductal	LN all	23
Sex:	F	Tumor dia.	15
Age:	67	Surgery:	mastectomy
BRE Grade:	G2		
Tubuli:	3		
Polymorphy:	3		

FIG 2E

Tissue MicroArrays

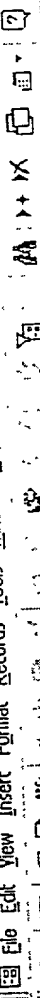
- Development of population databases
- High-throughput in situ analysis of DNA, RNA and protein
- Discovery of diagnostic and prognostic correlations
- Target prioritization

FIG. 3

The Clinomics Biorepository

Clinomics Biorepository Application - (fmsSpecimenEntry: Form) - [X] [X]

File Edit View Insert Format Records Tools Window Help



Specimen Entry Form

Pathology # H-983-90

Add New Pathology
Delete Existing Pathology
Save Record

Patient Data		Diagnosis		Histology		Specimen Data	
Collection Date	Age at Collection	Received Date	Received Tech	Specimen Type	Amount		
6/19/1990	83	10/15/1999	CB	[issue]	block		
Medication		Evidence		Treatment		TNM Staging	
Con Medication		Metastasis Site		Biopsy		T1N0M0	
Taxol		Lung		Chemotherapy		Surgical Biopsy	
Chemotherapy		Radiation Therapy		Node Status		Yes	
Yes		Yes		Positive		Yes	
Chemo Date		Radiation Date		Surgical Resection			
8/20/1990		7/15/1990		Yes			
Primary Site		Tube Type		Conical			
Breast (I)				Yes			

Sample Data

Clinomics ID	Description	Location	Sample Type	Amount	Quote #
000002841		TPA, A, tubes	FFPE	block	0
000007489	Breast cancer	TPA, A, tubes	S	100 mg/l	0
000007491	Breast cancer	TPA, B, bags	FFPE	100 Mg	0
000007492	Breast cancer	TPA, B, bags	FFPE	100 mg	0
000007493	Breast cancer	TPA, A, tubes	FFPE	100 mg	0
000007494	Breast cancer	TPA, A, tubes	FFPE	100 mg	0

Record: 1 of 4771

Form View

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CLINOMICS

Biorepository Database

coordinates on array	histology	HR grade	tumor diameter	pT	pN	nodes examined	nodes pos	censor	months survival	age	hormithrapy	chemotherapy	prophylaxis
	ductal	1						0	58	33			
	microin	1	90	3	1	40	28	0	78	43	no	yes	no
	ductal	2	60	3	2	10	6	0	29	54	yes	no	no
	ductal	1	20	1	0	8	0	0	96	55	no	no	no
	ductal	1	30	4	1	9	2	0	64	70	yes	no	no
	ductal	1	30	4	1	14	8	0	43	44	no	yes	no
	ductal	1	10	1	1	11	2	0	12	51			
	ductal	3	22	2	1	16	3	0	107	64	yes	no	no
	ductal	3	30	2	3	4	4	0	21	48			
	ductal	3		3	2			0	28	49			
	ductal	2	40	2	1	13	5	0	55	69			
	ductal	1	40	2	2	12	9	0	73	44			
	ductal	2	30	4	2	10	7	0	85	70			
	ductal	3	30	4	0	14	0	0	80	79	no	no	no

Medication and treatment histories, with outcomes, and expression profiles

FIG. 4B

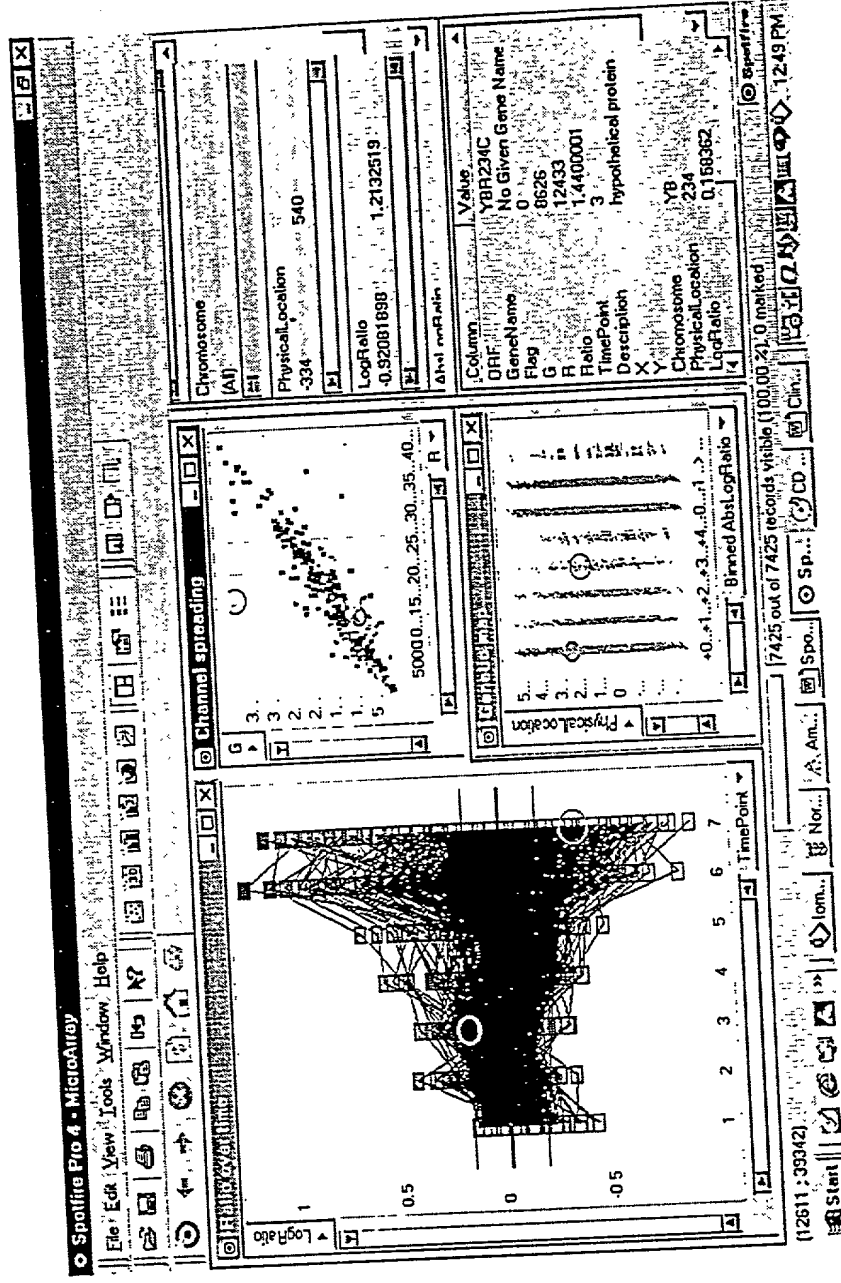
CLINOMICS

Biorepository Database

Sorting and selection of patient populations

Clustering analysis

Development of expression profiles vs. medical data



Clustering analysis

FIG. 4C

FIG. 5

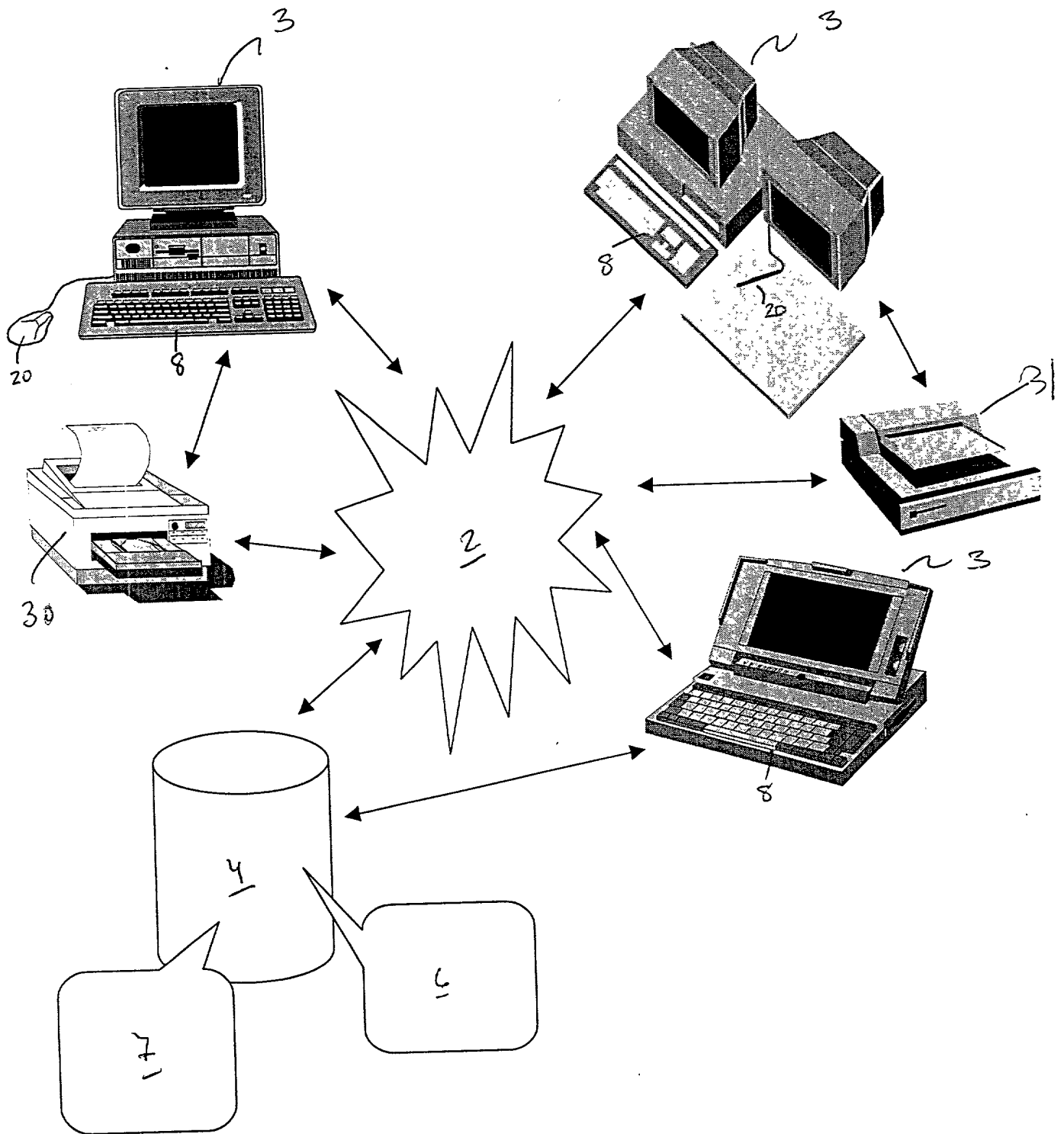


FIGURE 5

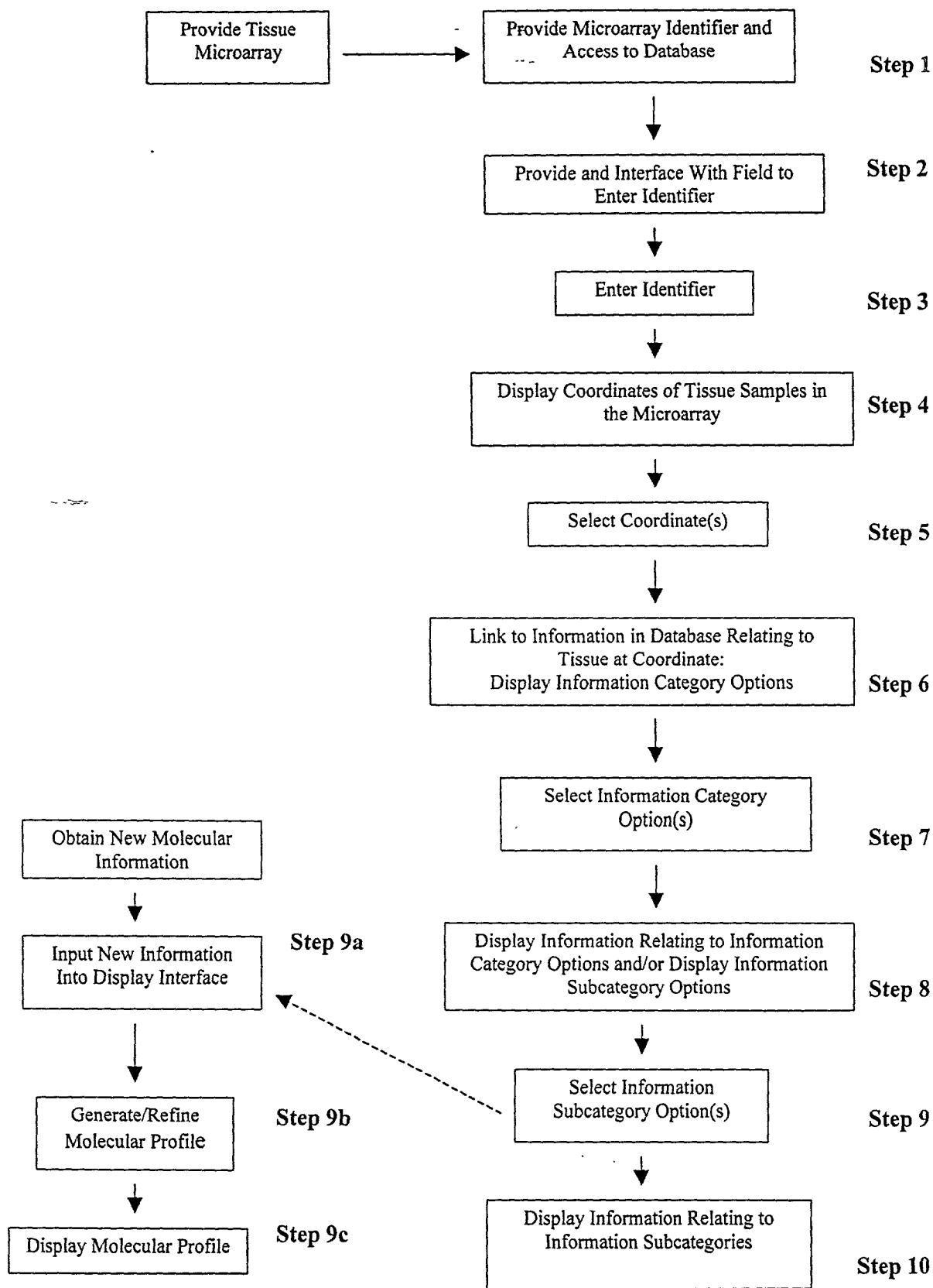


FIG. 6

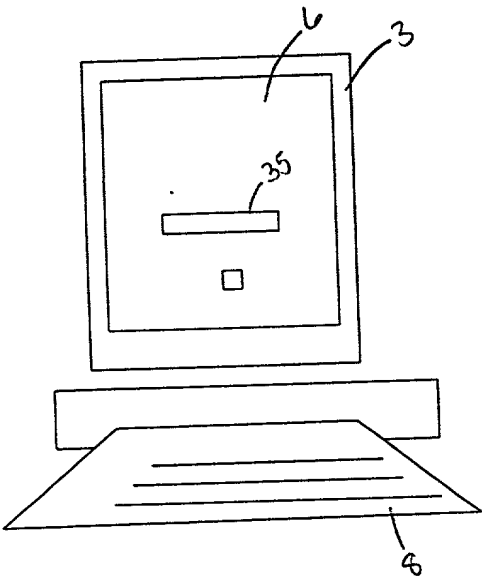


FIG. 7A

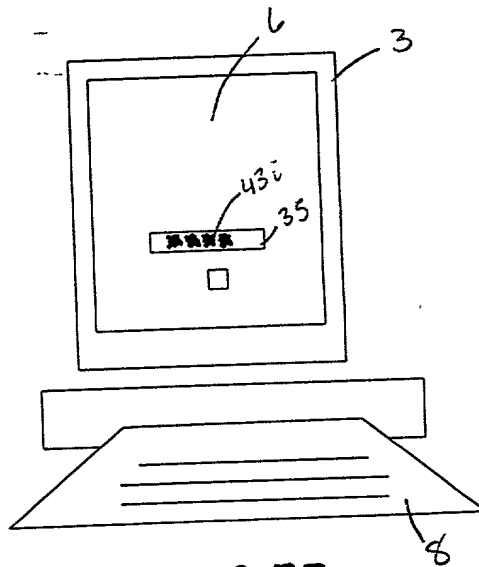


FIG. 7B

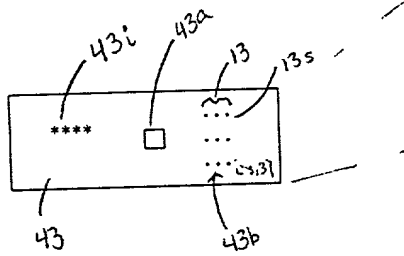


FIG. 7C

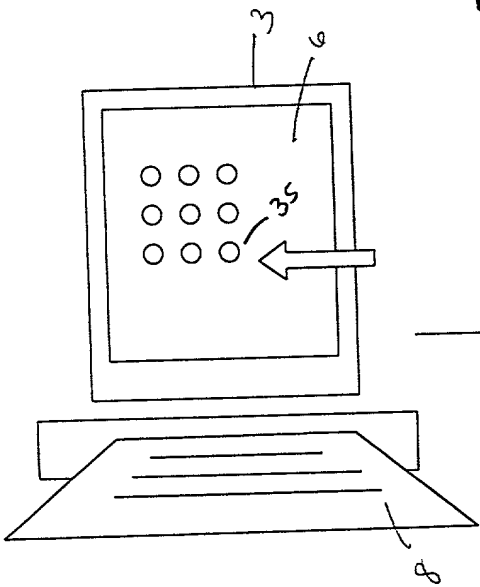
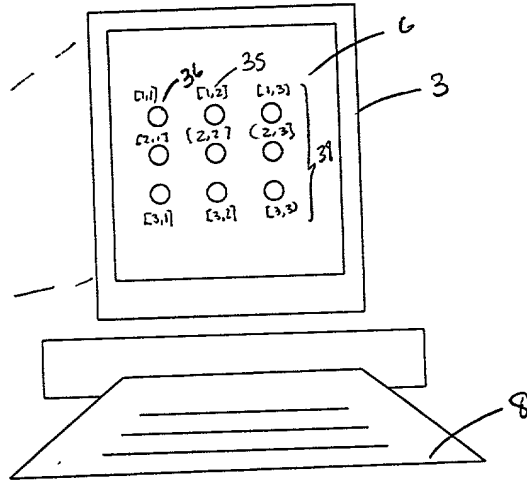


FIG. 7D

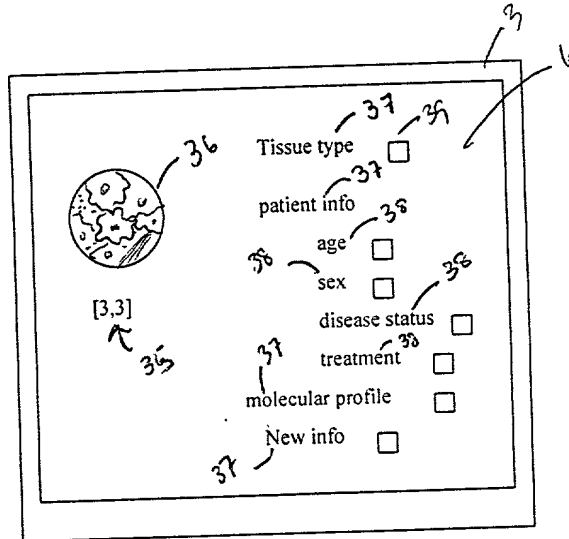
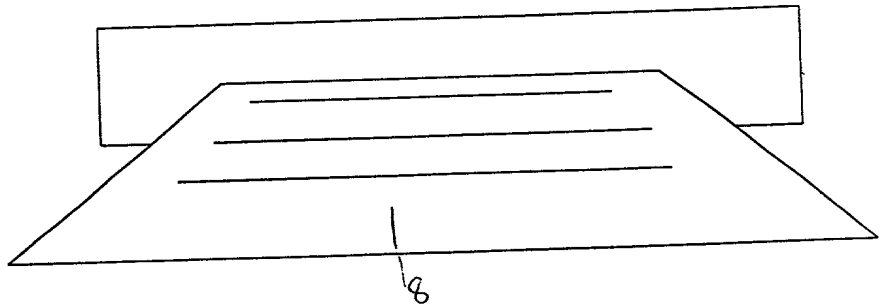


FIG. 7E



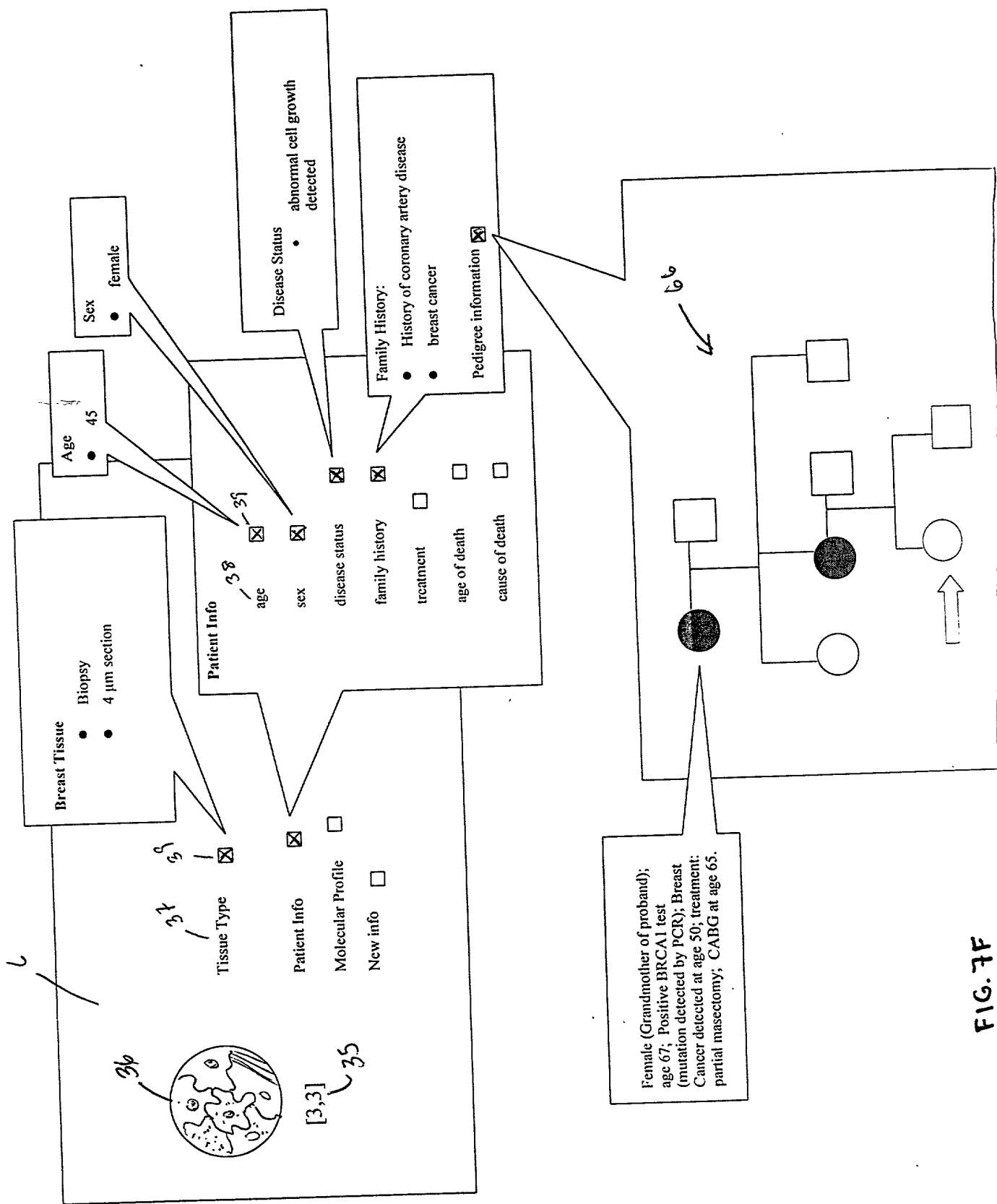


FIG. 7F

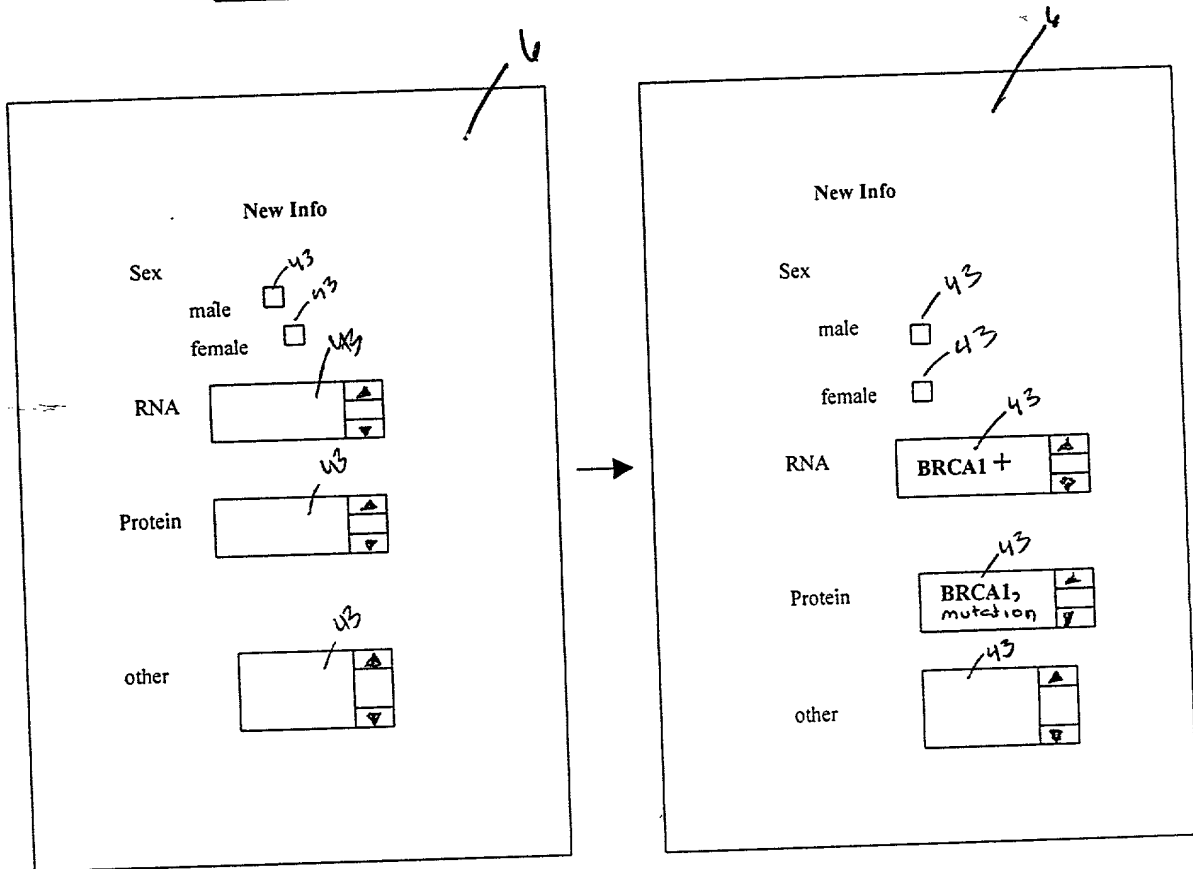
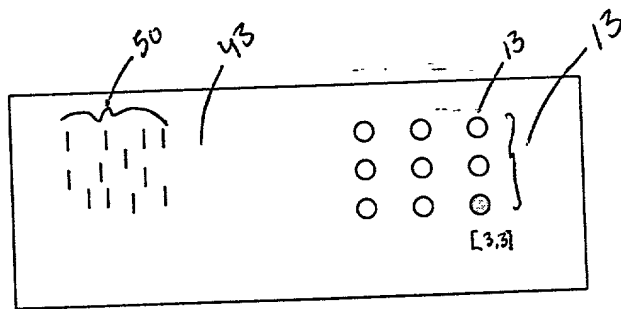


FIG. 7G

32

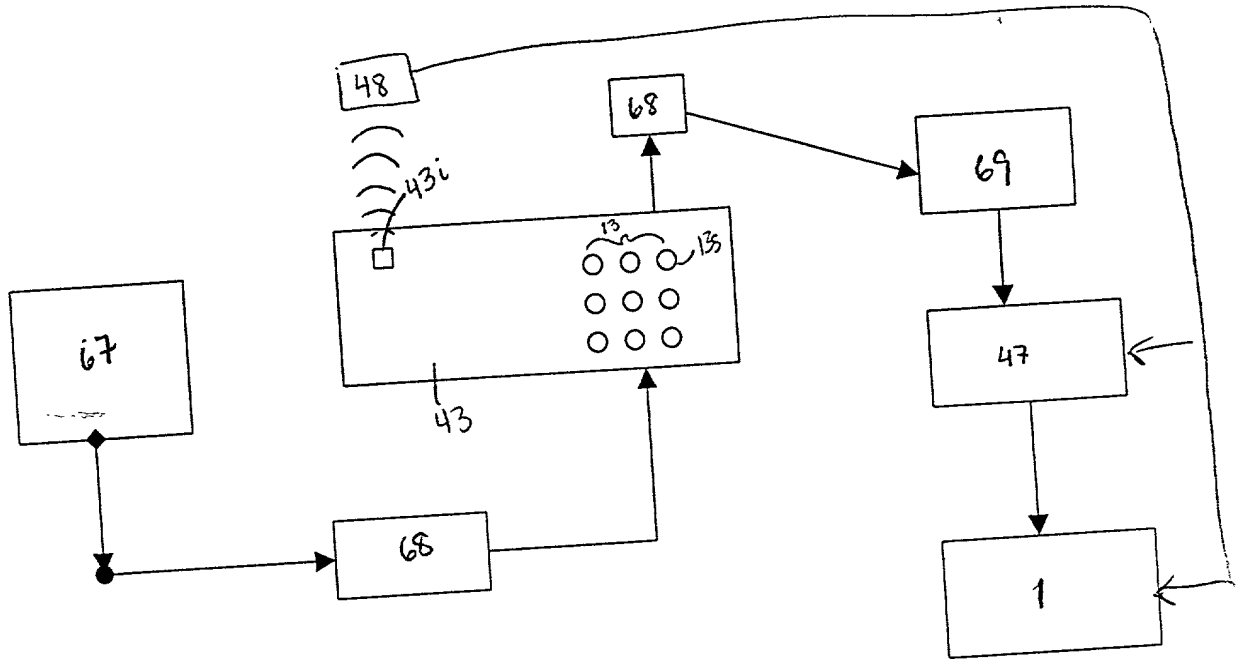


FIGURE 8

FIG. 9

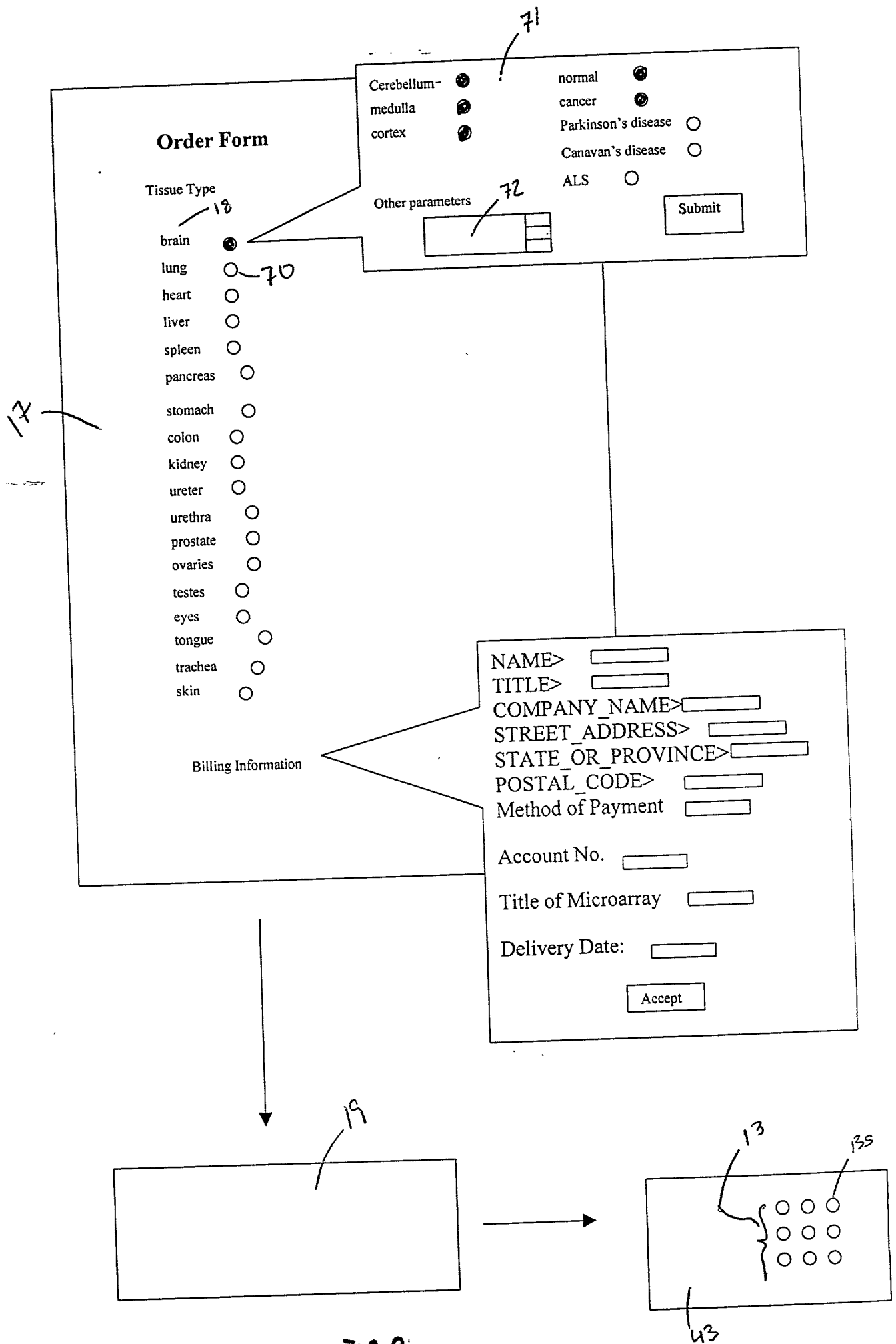


FIGURE 10

Microsoft Access - [Pathology H-0717-86 to H-0065-87]

File Edit View Insert Format Records Tools Window Help

Pathology # Clinomics ID Age/DOB Sex Collection Date Location

H-0722-86 000000006P 63 M 4/30/86 tissue processing area

Primary Diagnosis Histology Primary Site Tube Type

bladder tumor grade 2 papillary transitional cell carcinoma showing at least superficial smooth muscle invasion and associated with mildly atypical Bladder freezer, paraffin

Sample Type Amount Treatment Medication Con Medication

paraffin block Chemotherapy, R. hydrochlorothiazide Valium, Tylenol

Chemotherapy Radiation Therapy Metastasis Site Evidence

Cytosin, Methotrexate and 5FU Localized Radiation Therapy, Pelvic No Positive Node T2N0M0 Grade 2

Surgical Biopsy Surgical Resection

YES Bladder

CA125 CA-153

NA Progesterone

Estrogen NA

Save Record

Record: 6 of 31393

Form View

FIGURE 11A

FIGURE 11A

Microsoft Excel - CLInOHRT.xls

Microsoft Excel - CLInOHRT.xls														
File Edit View Insert Format Tools Data Window Help														
75%														
D2														
	B	C	D	E	F	G	H	I	J	K	L	M	N	
	POST MENOPAUSAL	63	F	CAU	10/96	NONE	NONE		UNK	NONE	UNK	UNK	SEF	
27	POST MENOPAUSAL	68	F	CAU	11/7/96	HUMULIN/INSULIN/ LORTAB/ NORVASE/ CYCLOBENZAPRIN E	HYPERTENSION/ UTV DEPRESSION/ ALLERGY(PENICILLIN)/ ARTHRITIS/ DIABETES		HYSTERECTOMY	NONE	NEVER	NONE	SEF	
28	POST MENOPAUSAL	61	F	CAU	11/9/96	INDURAL/ DYAZIDE/ CHOL MEDS			HYSTERECTOMY	NONE	NEVER	NONE	SEF	
29	POST MENOPAUSAL	UNK	F	BLK	11/9/96	BLOOD PRESSURE PILLS	HYPERTENSION		HYSTERECTOMY(1991)	NONE	NEVER	NONE	SEF	
30	POST MENOPAUSAL	6/9/35	F	CAU	11/07/9 6	CIMETIDINE/ GLUCOPHAGE/ GLYBURIDE	ARTHRITIS/ DIABETES		HYSTERECTOMY (1976)	NONE	NEVER	NONE	SEF	
31	POST MENOPAUSAL	1/31/15	F	CAU	11/07/9 6	ZANTAC/ ASPIRIN/ EQUATE	CARDIAC(1 BYPASS 1993)	1955		NONE	NEVER	NONE	SEF	
32	POST MENOPAUSAL	9/10/15	F	CAU	11/07/9 6	NONE	NONE	1955		NONE	20 YRS AGO	NONE	SEF	
33	POST MENOPAUSAL	66	F	BLK	11/07/9	ANACIN	NONE		HYSTERECTOMY(1992)	NONE	NEVER	NONE	SEF	

CLInOHRT

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the Clinics Biorepository Database.

A. Raw Clinical History Data Retrieved from the Clinomics Biorepository Database.

Spotfire Pro 4 - CLInOHRT3.sfs

File Edit View Tools Window Help

CONCURRENT CONDITIONS

(All)

MENSTRUAL STATUS

(All)

HORMONE REPLACEMENT THERAPY

☒ NONE

Column Value

Clinomics LDT NO 9701-027-2542

SAMPLE TYPE POST MENOPAUS

DOB 59

AGE F

SEX BLK

ETH 11/07/96

DOD INSULIN/ISTELAZI

MEDICATIONS HYPERTENSION/

CONCURRENT CONDITIONS 1988

MENSTRUAL STATUS NONE

HORMONE REPLACEMENT THERAPY 8 YRS AGO LIGHT

SMOKING HISTORY NONE

ALCOHOL HISTORY NONE

MATRIX SERUM

AVAIL VOL AS OF(8/20/98) 22

73 out of 73 records visible (100.00%) 0 marked

(1979, ZANTAC/ASPIRIN/EQUATE)

Start Norton System Do. CD Player [06] O. Spotfire Pro 4 10:27 PM

FIGURE 11B

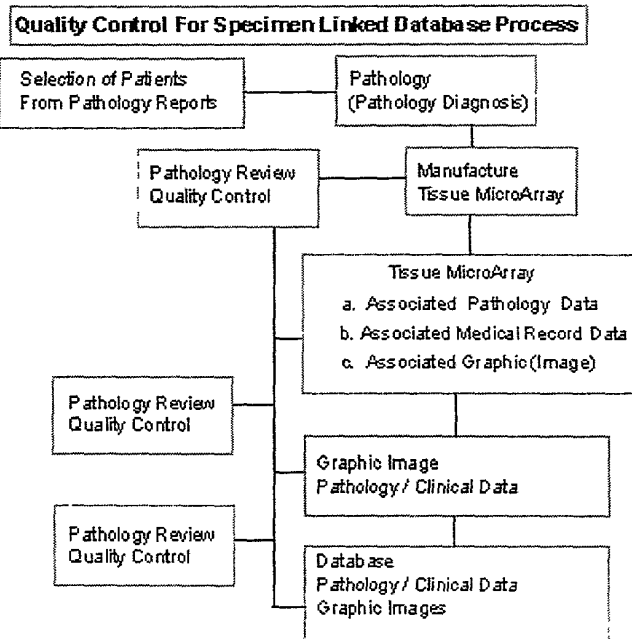


FIGURE 12

Figure 13

SNO-MED ANASITE NUMBERS							
T.02	SKIN	T.41	ARTERY,GENERAL	T.77	PROSTATE	T.Y1	TRUNK,PERINEUM
T.03	SUBCUTANEOUS TISSUE	T.42	AORTA	T.78	TESTES,TUNICA VAGINALIS	T.Y2	THORACIC,DIAPHRAGM
							MEDIASTINUM
T.04	BREAST	T.43	CORONARYARTERY	T.79	SCROTUM,SPERM CORD	T.Y3	THORACIC VISCERA
					EPIDIDYMIS,VAS DEF	T.Y4	ABDOMEN,PERITONEU
							RETROPERITONEUM
T.06	BONE MARROW	T.44	PULM. ARTERY	T.80	VULVA,LABIUM,CLITORIS	T.Y6	PELVIS
					BARTHOLINS GLAND	T.YX	PERITONEAL FLUID
T.07	SPLEEN	T.45	VERT,CAROTID,CEREBR,TEMPOR,	T.81	VAGINA,HYMEN	T.Y1	SYNOVIAL FLUID
			BASILOR ARTERIES			T.2X	UPPER RESP FLDS
T.08	LYMPH NODES	T.46	ILIAC,RENAL,MESSENTERIC ARTERY	T.82	UTERUS	T.2Y	LOWER RESP FLDS
T.09	LYMPHATICS	T.47	POPLITEAL ARTERY	T.83	CERVIX	T.6X	GI FLDS, SPACES
T.11	BONE	T.48	VEIN	T.84	ENDOMETRIUM	T.6Y	GI CONTENTS
T.12	SYNOVIUM,JOINT	T.49	VEIN	T.85	MYOMETRIUM	T.7X	URINE TRA.FLD,SPACE
T.13	MUSCLE	T.50	DIGESTIVE SYSTEM	T.86	FALLOPIAN TUBE	T.7Y	MALE GENT FLD,SPACE
T.15	CARTILADGE	T.51	MOUTH,PALATE,ORAL	T.87	OVARY	T.8X	FEM.GENT FLD,SPACE
T.16	BURSA	T.52	LIP	T.88	PLACENTA,UMBCORD	T.8Y	PLACENTA,FETAL FLD
T.17	TENDON	T.53	TONGUE	T.89	FETUS	T.XO	NERVOUS SYSTEM
T.18	LIGAMENT,FASCIA	T.54	GUM,TOOTH,GINGIVA	T.91	PITUITARY	T.YO	BODY AS A WHOLE
T.19	SOFT TISSUE	T.55	PAROTID,SALIV GLND	T.93	ADRENAL		
T.21	NOSE	T.56	LIVER	T.96	THYROID		
T.22	SINUS,ACESSORY	T.57	GALLBLADDER	T.97	PARATHYROID		
T.23	NASOPHARYNX	T.58	EXTRAHEPATIC BILE DUCT	T.98	THYMUS		
T.24	VOC. CRD.,LARY.,EPIGLT	T.59	PANCREAS	T.99	ISLET OF LANGERHANS		
T.25	TRACHEA	T.60	PHARYNX	T.OX	BLOOD		
T.26	BRONCHUS	T.61	TONSIL,ADENOIDS	T.1X	FIBRO, ADIPOSE TISSUE		
					CONNECTIVE TISSUE		
T.27	BRONCHIOLE	T.62	ESOPHAGUS	T.Y8	UPPER EXTREM.		
T.28	LUNG	T.63	OMENTUM ,STOMACH,PYLORUS	T.Y9	LOWER EXTREM.		
T.29	PLEURA	T.64	SM INTEST. , DUODENUM	T.XY	EAR		
T.30	CARDIO VAS SYS	T.65	JEJUNUM,ILEUM	T.XX	EYE		
T.31	PERICARDIUM	T.66	APPENDIX	T.X1	INTRACRAN. MENINGES		
					CSF,DURAL,VENTRIC SYS		
T.32	HEART	T.67	COLON,MESSENTERY	T.X2	CEREBRAL,BRAIN		
					CORPUS CALLOSUM		
T.33	MYOCARDIUM	T.68	RECTUM	T.X3	BASAL GANGLIA		
T.34	ENDOCARDIUM	T.69	ANUS	T.X4	THALAMUS		
T.35	CARDIAC VALVE	T.71	KIDNEY	T.X5	PONS, MIDBRAIN		
T.36	TRICUSPID VALVE	T.72	RENAL PELVIS,COCCYX	T.X6	CEREBELLUM		
T.37	PULMONIC VALVE	T.73	URETER	T.X7	SPINAL CORD		
T.38	MITRIAL VALVE	T.74	BLADDER	T.X8	CRANIAL NERVE,OPTIC		
T.39	AORTIC VALVE	T.75	URETHRA	T.X9	NERVE , VAGUS NERVE		
T.40	BLOOD VESSELS	T.76	PENIS	T.YO	SCALP,ORBITAL		

"106020" S.T.2.50

FIGURE 14A

SNO-MED DIAGNOSIS NUMBERS CARCINOM

ADENOCARCINOMA	M.8143
ADENOCARCINOMA,ANAPLASTIC	M.8233
ADENOCARCINOMA,CLEAR CELL	M.8313
ADENOCARCINOMA,COLLOID	M.8483
ADENOCARCINOMA,CYSTIC	M.8443
ADENOSQUAMOUS CARCINOMA	M.8563
ADENOCARCINOMA,IN-SITU	M.8142
ADENOCARCINOMA,MUCINOUS CYST	M.8473
ADENOCARCINOMA,PAPILLARY	M.8263
ADENOCARCINOMA,UNDIFFER.	M.8233
ADENOCARCINOMA,SIGNET RING	M.8493
ARRHENBLASTOMA	M.8630
ANAPLASTIC MALIGNANCY	M.8003
ASTROCYTOMA,GRADE 1	M.9403
ASTROCYTOMA,GRADE 2	M.9433
ASTROCYTOMA,GRADE 3 & 4	M.9443
ADNEXAL CARCINOMA	M.8393
ANAPLASTIC CARCINOMA	M.8023
ADENOID CYSTIC CARCINOMA	M.8203
ADAMANTINOMA	M.9310
ALVEOLAR CARCINOMA	M.8253
ACINAR TUMOR	M.8001
ACINAR CARCINOMA	M.8553
BASAL CELL CARCINOMA	M.8093
BRONCHIOLAR CARCINOMA	M.8253
BASALOID TRANSITIONAL CARCINOMA	M.8123
BASAL CELL EPITHELIOMA	M.8090
CARCINOMA	M.8013
CARCINOMA,COLLOID	M.8483
CARCINOMA,IN-SITU	M.8012
CARCINOMA,PAPILLARY	M.8053
CARCINOMA,SMALL CELL	M.8043
CARCINOSARCOMA	M.8983
CARCINOID,MALIGNANT TUMOR	M.8243
CARCINOMA,UNDIFFERENTIATED METS	M.8023
CARCINOMA,UNDIFFERENTIATED	M.8023
CHORIOCARCINOMA	M.9103
CARCINOID TUMOR	M.8241
CHOLANGIOCARCINOMA	M.8163
CHONDROSARCOMA	M.9223
CHONDROBLASTOMA	M.9230
CRANIOPHARYNGIOMA	M.9351
CYLINDROMA	M.8203
CYSTADENOCARCINOMA PAPILLARY SEROUS	M.8463
CYSTADENOCARCINOMA, PAPILLARY	M.8453
DERMATOFIBROSARCOMA	M.8823
DYSPLASIA	M.7600
DUCTAL,INFILTRATING CARCINOMA	M.8503
EPENDYMOMA	M.9391

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FIGURE 14B

EPIDERMOID CARCINOMA	M.8073			
EMBRYONAL CELL CARCINOMA	M.9073			
EPITHELIOMA	M.8110			
EWINGS SARCOMA	M.9263			
FIBROSARCOMA	M.8823			
FOLLICULAR CARCINOMA	M.8333			
GIANT CELL SARCOMA	M.8803			
GIANT CELL TUMOR	M.9040			
GRANULOSA CELL TUMOR	M.8621			
GLIOBLASTOMA, MULTIFORME	M.9443			
GLIOMA	M.9383			
GIANT CELL CARCINOMA	M.8033			
HEMANGIOBLASTOMA	M.9161			
HEPATOBLASTOMA	M.8973			
HISTOCYTOMA	M.8830			
HODGKINS	M.9653			
HODGKINS SARCOMA	M.9683			
HURTLE CELL CARCINOMA	M.8363			
ISLET CELL CARCINOMA	M.8153			
KAPOSI SARCOMA	M.9143			
LEUKEMIA, ACUTE MYELOGENOUS	M.9865			
LEUKEMIA, LYMPHOMA	M.9826			
LEUKEMIA	M.9807			
LEUKEMIA, CHRONIC LYMPHOMA	M.9827			
LEIOMYOSARCOMA	M.8893			
LYMPHOMA, LYMPHOCYTIC	M.9633			
LYMPHOMA, LYMPHOCYTIC	M.9593			
LYMPHOMA, GIANT FOLLICULAR	M.9693			
LYMPHOSARCOMA, LYMPHOCYTIC	M.9623			
LYMPHOMA, MALIGNANT	M.9593			
LYMPHOMA, HISTIOCYSTIC	M.9643			
LYMPHEPITHELIOMA	M.8083			
LYMPHOMA, T-CELL	M.9703			
LYMPHOSARCOMA, LYMPHOCYTIC	M.9613			
LIPOSARCOMA	M.8853			
LYMPHOMA, STEM CELL	M.9603			
MALIGNANT MELANOMA SPINDLE CELL	M.8773			
MENINGIOMA	M.9530			
METASTATIC CARCINOMA	M.8016			
MALIGNANT TUMOR	M.8003			
METASTATIC MALIGNANT TUMOR	M.8006			
MEDULLOBLASTOMA	M.9473			
MALIGNANT MELANOMA	M.8723			
MALIGNANT CELLS	M.6972			
MYOBLASTOMA	M.9370			
MUCOEPIDERMOID CARCINOMA	M.8433			
MALIGNANT CARCINOID TUMOR	M.8243			
MALIGNANT MESENCHYMOMA	M.8993			
MESOTHELIOMA	M.9051			
MYELOMA	M.9733			
METASTATIC MELANOMA	M.8733			

FIGURE 14C

MALIGNANT GRANULOSA CELL TUMOR	M.8623			
MALIGNANT PHEOCHROMOCYTOMA	M.8703			
MALIGNANT MESOTHELIOMA	M.9053			
METASTATIC LEIOMYOSARCOMA	M.8893			
MESODERMAL TUMOR	M.8953			
MIXED TUMOR	M.8940			
NEUROBLASTOMA,NEUROEPITHELIOMA	M.9503			
NECROTIC TUMOR	M.5443			
NEUROBLASTOMA,NEUROEPITHELIOMA	M.9503			
OLIGODENDROGLIOMA	M.9453			
OAT CELL CARCINOMA	M.8043			
OSTEOBLASTOMA	M.9200			
OSTEOMA	M.9180			
OSTEOSARCOMA	M.9183			
OSTEOIDOSTEOMA	M.9190			
OSTEOCHONDROMA	M.9210			
PAPILLARY CARCINOMA	M.8053			
PLASMA CELL MYELOMA	M.9733			
PAPILLARY METASTATIC CYTADENOCARCINOMA	M.8463			
PAPILLARY TRANSITIONAL CELL CARCINOMA	M.8133			
RENAL CELL CARCINOMA	M.2485			
RETICULUM CELL SARCOMA	M.9643			
RENAL CLEAR CELL CARCINOMA	M.8313			
SQUAMOUS CELL CARCINOMA	M.8073			
SARCOMA,RETICULAR CELL	M.8316			
SQUAMOUS EPITHELIAL TUMOR	M.8070			
SQUAMOUS CELL CARCINOMA IN-SITU	M.8072			
SARCOMA,UNDIFFERENTIATED GIANT CELL	M.8803			
SARCOMA,RETICULAR CELL	M.9643			
SPINDLE CELL CARCINOMA	M.8033			
SEMINOMA	M.9063			
STROMAL SARCOMA	M.8933			
TUMOR	M.8001			
TUMORLET	M.8043			
THYMOMA MALIGNANT	M.8583			
TRANSITIONAL CELL CARCINOMA	M.8123			
TERATOMA	M.9081			
VERRICOUS SQUAMOUS CARCINOMA	M.8053			

TUMORLET

FIGURE 15

BRAIN INVENTORY CLASSIFICATIONS									
PATHOLOGY	TISSUE	DOB	AGE	SEX	MEDICAL HISTORY	ICD-9-CM	DSM-IV-T	MEDICATIONS	METHO
AU-99-47	Brain (organic)	04/08/1981	18	M	Multiple traumatic injuries sustained in a motor vehicle accident: Open skull fractures, brain contusions, subarachnoid hemorrhage, pericardial tear, bilateral pneumothoraces, contusions of heart, Blood alcohol level 95 mg/dl	851.80 852.00 860.0	291.89	N/A	FFPE
AU-99-81	Brain (organic)	04/26/1972	27	F	Pregnancy induced hypertension Thyroiditis Asthma Severe pre-eclampsia Anoxic encephalopathy Intracerebral hemorrhage Hemorrhage of right putamen Hypertensive cerebral edema Diffuse anoxic changes	401.9 245.9 493.90 642.0 437.2 431 348.5	293.83	Betamethasone Magnesium sulfate Pitocin Apresoline Mannitol	FFPE
AU-99-80	Brain (organic)	12/27/1947	52	F	Breast cancer Idiopathic cardiomyopathy Chronic congestive heart failure Anaphylactic shock secondary to Taxol administration Severe hypoxia and brain death	174.9 425.40 428.00	293.83	N/A	FF
AU-99-82	Brain (psych)	09/05/1957	42	M	Chronic pain Drug abuse Severe coronary artery sclerosis Old myocardial infarction Cardiomegaly	307.89 305.90 414.00	307.89	N/A	FFPE
AU-99-84	Brain (psych)	05/10/1960	39	F	Severe chronic alcoholism Previous hospital admission for alcohol intoxication and major depression Severe ascites (4,000 ml) Hepatomegaly (liver 1,690gm) Severe cirrhosis	 571.2	291.89 305.00	N/A	FFPE
AU-99-90	Brain (psych)	04/19/1962	37	M	Multiple traumatic injuries sustained in a motor vehicle accident: Avulsion of soft tissue, bone and brain, Multiple comminuted open fractures of the skull Alcohol intoxication Blood ethanol level .252 gm %				
AU-99-91	Brain (organic)	01/09/2028	71	M	Prostate cancer Squamous cell cancer of lung Ventricular peritoneal shunt secondary to progressive hydrocephalus from brain mass Hypertension Headaches Unsteady gait Mental confusion Metastatic squamous cell cancer to liver, spleen, kidneys, and brain Emphysema Atherosclerosis of coronary arteries.	185 162.9 331.3 401.9 197.7 198.3 492.8	293.83	N/A	FFPE
AU-99-93	Brain (psych)	05/01/1958	41	M	Morbid obesity Hypertension Gout Chronic pain syndrome Depression Acute myocardial infarction Acute alcohol intoxication Cardiac hypertrophy Micronodular cirrhosis	278.00 401.9 274.9 410.90 571.2	303.00 291.89	occupnl, Colchicine, Napro	FFPE
AU-99-94	Brain (psych)	#####	50	F	Ethanol abuse Hypertension Elevated liver enzymes Micronodular cirrhosis Severe ascites (5 lt) Splenomegaly Emphysema	 401.9 571.2 492.8	305.00		